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Specification as originally filed, with Application for Patent Serial No: **2,332,189**, on January 24, 2001, by **CLAUDE BERGERON** for "Plastic Recycling ".

S Gregoire
Agent certificateur/Certifying Officer

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Date

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PLASTIC RECYCLING

The present invention relates to recycling and more particularly, relates to the recycling of plastic materials.

The recycling in glass materials has been widely practiced for a number of years. One of the glass materials widely used for reprocessing is that of windshields in automotive and like vehicles. In the recycling process, the glass is recovered. However, windshields usually have an intermediate layer of a plastic material which normally contains a polyvinyl butyral polymer. The polyvinyl butyral polymer may be in combination with other compounds such as tetraethylen-clycol.

During the recycling of the glass material, the plastic materials are eventually removed and stock piled. Accordingly, the stock pile of material presents a potential environmental hazard.

There is, therefore, in the art a requirement for a process to recycle the plastic material and to use the recycled plastic material.

The present invention has found that one may recycle the polyvinyl butyral material by dissolving the same in a solvent and which solvent is preferably selected from one acidic acid or combinations of acetone and other materials. In particular, a combination of acetone and isopropanol has been found to be suitable.

Following the treatment of the polyvinyl butyral with the solvent to achieve a solution having a desired consistency, it may subsequently be utilized as an adhesive in various wood products.

The recycled polyvinyl butyral may be, in preferred embodiments, used in composite wood products such as plywood, presswood, and the like.

It will be understood that the above described embodiment is for purposes of illustration only and that changes or modifications may be made thereto without departing from the spirit and scope of the invention.